

May/Jun 58

USSR/Geography - Kalinin Oblast

"Review of M. M. Bocharov's 'Nature of Kalinin Oblast'" (B. A. Shirokov, reviewer)

Iz V-s Geog Ob, Vol 85, No 3, pp 308, 309

Favorably reviews Bocharov's book "Priroda Kalininskoy Oblasti," edited by Prof. V. Gaveman, Kalininskoy Oblast, 1951, 127 pp, 500 copies, 6 rubles.

265T5C

SHIROKOV, B.A.

Geography of Kalinin Province. Reviewed by B.A. Shirokov. Geog. v shkole
no. 3:78-79 My-Je '53. (MLRA 6:6)
(Kalinin Province--Geography) (Bocharov, M.M.)

KALMYKOVA, Valentina Grigor'yevna; KOREPANOV, Yakov Alekseyevich;
LEBEDEV, Aleksandr Aleksandrovich; MAYEVSKIY, Viktor Iosifovich;
SHIROKOV, Boris Arkad'yevich; BOCHAROV, M.M., kand.geograf.nauk,
red.

[Excursions for studying the nature of the native land; collection
of articles] Ekskursii po izucheniiu prirody rodnogo kraia;
sbornik statei. Pod red. M.M.Bocharova. Kalinin, Knizhnoe izd-vo,
1955. 164 p. (MIRA 12:10)

(Nature study)

NOVIKOV, Aleksandr Aleksandrovich, dvazhdy geroy Sovetskogo Soyuz;
SHIROKOV, B.A., red.; GURDZHIYEVA, A.M., tekhn. red.

[Jet equipment in commercial aviation] Reaktivnaia tekhnika v transportnoi aviatsii. Leningrad, Ob-vo "Znanie" (MIRA 17:3)
RSFSR, 1963. 64 p.

WIDOM, S. S.

Agriculture

The experience of mastering the grassland system in agriculture, Moskva, S-Libozgiz, 1951

9. MONTHLY LIST OF RUSSIAN ACQUISITIONS, Library of Congress, December 1952. Uncl.

... ..

Rotation of Crops

"Experience in adopting grassland agriculture." Revised I. N. Ivin. Sov. Econ. L., no. 7, 1972.

7. UNITED STATES RUSSIAN WORKSHOPS, Library of Congress. November 1962. Uncl.

COUNTRY : USSR
 SUBJECT : Soil Science. Organic Fertilizers. J
 LIT. SOUR. : IZVESH., No. 3 1959, No. 10702
 AUTHOR : Zelyalov, P. K., Shirokov, B. G., Gayrenko, G. I.
 TITLE : Timiryazev Agricultural Academy
 : Organic-Mineral Fertilizing Mixtures on Southern
 : Chernozems of Stalingrad Oblast'.
 REF. JN. : I. v. Timiryazevsk. s.-kh. akad., 1957, No. 5, 37-42
 ABSTRACT : On the chernozems of Stalingrad oblast', application of
 : organic-mineral mixtures is a highly effective method and
 : more within the reach of the kolkhozes of this zone since
 : it requires fewer expenditures. Organic-mineral mixture
 : applied to a fallow field is not less effective than 20
 : tons of manure applied in combination with the same
 : amount of mineral fertilizers which are a part of the
 : fertilizing mixture. -- V. D. Astaf'yeva

1/1

ISPIRYAN, G.P., kand.tekhn.nauk; SHIROKOV, B.G., inzh.

Economics of cutting out chrome-tanned pigskin butts.

Leg.prom. 17 no.8:7-9 Ag '57.

(Hides and skins)

(MIRA 10:10)

ISPIRYAN, G.P., kand. tekhn. nauk; KUKULYAN, S.P., inzh.; MALKIMAN, Ye.I.,
inzh.; SHIROKOV, B.G., inzh.

Tanning hides in butts divided into two portions. Leg. prom. 18 no.3:
11-12 Mr '58. (MIRA 11:4)

(Tanning)

SHIROKOV, B.G., inzh.; MERZON, A.G., inzh.

Practical shape of leather to be used for shoe welts. Kozh.-
obuv.prom. no.9:14-17 S '59. (MIRA 13:2)
(Shoe manufacture)

SHIROKOV, B.G., inzh.

Methods for grading large hides by their thickness. Kozh.-
obuv.prom. 2 no.7:24-27 J1 '60. (MIRA 13:8)
(Hides and skins)

VISHNEVSKIY, Yu.S. [Vystenevskiy, I.U.S.]; SHIROKOV, B.G. [Shyrokov, B.H.]

Manufacture of chrome leather by the lining method without
coating. Leh. prom. no.4:24-25 O.S. '62. (MIRA 16:5)

1. Nikolayevskiy kozhevenno-obuvnoy kombinat (for Vishnevskiy).
2. Ukrainskiy nauchno-issledovatel'skiy institut kozhevenno-
obuvnoy promyshlennosti (for Shirokov).

KHRIPIN, A.G. [Khrypin, A.H.]; BRAGINSKIY, M.A. [Brahins'ky', M.A.];
BEREZOVSKAYA, M.G. [Berezovs'ka, M.H.]; SHIROKOV, B.G. [Shyrokov,
B.H.]; MOROZYUK, M.I.; ROZENBERG, Kh.N.

The ASD-1 unit for drying chrome leather in a dynamic state.
Leh. prom. no.2:21-24 Ap-Je'64 (MIRA 17:7)

SHIROKOV, B.G., inzh.; GRISHILO, V.F., inzh.

Manufacture of shoe materials from several layers of split
leather. Kozh.-obuv.prom. 6 no.11:26 N '64.

(MIRA 18:4)

KONDRAT'YEV, Afanasiy Borisovich, kand.tekhn.nauk; YERSHOVA, Galina Nikolayevna, inzh.; MEN'SHIKOV, Ivan Alekseyevich, prof., doktor tekhn.nauk; MOSKOVSKIY, Mikhail Ivanovich, kand.tekhn.nauk; SOBOLEV, David Iosifovich, kand.tekhn.nauk; SMIL'CEVICH, Petr Kazimirovich, inzh.; SHIROKOV, Boris Ivanovich, kand.sel'sko-khoz.nauk. ~~Prinimeli uchastiye:~~ TREBIN, Boris Nikolayevich, inzh.; OSOBOV, Vadim Izrailevich, inzh. BRIK, P.A., prepodavatel', retsenzent; IVANOV, V.A., prepodavatel', retsenzent; KOGANOV, A., prepodavatel', retsenzent; KONONOV, B.V., prepodavatel', retsenzent; MARKOV, G.Ya., prepodavatel', retsenzent; OSIPOV, G.P., prepodavatel', retsenzent; RYABOV, P.I., prepodavatel', retsenzent; SOLOV'YEV, K.Ya., prepodavatel', retsenzent; SOROKIN, V.Ya., prepodavatel', retsenzent; BANNIKOV, P., red.; VORONKOVA, Ye., tekhn.red.

[Manual for collective farm machinery operators] Spravochnik mekhanizatora sel'skogo khoziaistva. Penza. Penzenskoe knizhnoe izd-vo, 1959. 610 p. (MIRA 14:2)

1. Saratovskiy institut mekhanizatsii sel'skogo khozyaystva imeni M.I.Kalinina (for Brik, Ivanov, Koganov, Kononov, Markov, Osipov, Ryabov, Solov'yev, Sorokin).
(Agricultural machinery) (Farm mechanization)

ZHEGALIN, I.K.; PUSTYGIN, A.A., glav. agronom; SPODENYUK, N.I.;
BYKOV, N.I.; REDIN, P.N., glav. agronom; LOGVIN, N.P., Geroy So-
tsialisticheskogo Truda; GUSEV, I.D.; PETROV, S.N.; VLASOV, A.N.,
glav. zootekhnik; SHEREMET, L.D., glav. bukhgalter; SKAKUNOV, N.V.,
glav. inzh.; SHUMILIN, V.S., glav. inzh.; CHERNORUBASHKIN, N.A.,
kombayner; DRYABO, N.Ye.; ZABNEV, V.F., redaktor; SHIROKOV, B.G.;
SHEPELEV, M.A.; LEONOVA, T.S.; SAYTANIDI, L.D., tekhn. red.

[Hundred million poods of grain from Stalingrad Province] 100 mil-
lionov pudov stalingradskogo khleba. Moskva, Izd-vo M-va sel'.khoz.
RSFSR, 1960. 133 p. (MIRA 14:9)

1. Pervyy sekretar' Stalingradskogo oblastnogo komiteta Kommunistiches-
skoy partii Sovetskogo Soyuza (for Zhegalin).
2. Oblastnoye upravleniye
sel'skogo khozyaystva Stalingradskoy oblasti (for Pustygin).
3. Ne-
khayevskiy rayonnyy komitet Kommunisticheskoy partii Sovetskogo Soyuza
(for Spodenyuk).
4. Nachal'nik Kotel'nikovskoy rayonnoy sel'skokho-
zyaystvennoy inspeksii, Krayniy Yugo-vostok (for Bykov).
5. Kolkhoz
"Deminskiy" Novo-Annenskogo rayona, Stalingradskoy oblasti (for Redin).
6. Predsedatel' kolkhoza "Zavety Il'icha" Kalininskogo rayona (for Log-
vin).
7. Nachal'nik Novo-Annenskoy rayonnoy sel'skokhozyaystvennoy in-
speksii (for Gusev).
8. Direktor sovkhoza imeni Frunze Serafimovich-
skogo rayona Stalingradskoy oblasti (for Petrov).
9. Stalingradskoye
oblastnoye upravleniye sel'skogo khozyaystva (for Vlasov).
10. Sovkhoz
"Dinamo" Nekhayevskogo rayona Stalingradskoy oblasti (for Sheremet).

(Continued on next card)

ZHEGALIN, I.K. — (continued) Card 2.

11. Oblastnoye upravleniye sel'skogo khozyaystva Stalingradskoy oblasti (for Skakunov). 12. Sovkhoz "Verkhne-Duzinovskiy" Stalingradskoy oblasti (for Shumilin). 13. Otdeleniye No.6 sovkhoza "Serebryakovskiy" Mikhaylovskogo rayona Stalingradskoy oblasti (for Chernorubashkin). 14. Zven'yevoy kolkhoza imeni Lenina Zhirnovskogo rayona Stalingradskoy oblasti (for Dryabo). 15. Danilovskaya rayonnaya gazeta "Kolkhoznoye znanya" Stalingradskoy oblasti (for Zabnev). 16. Zamestitel' predsedatelya oblastnogo ispolnitel'nogo komiteta Stalingradskoy oblasti (for Shirokov).

(Volgograd Province—Grain)

USSR/ Physics - Electroosmosis of soil

FD-1043

Card 1/1 : Pub. 153 - 14/23

Author : Shirokov, B. I.

Title : Problem of the utilization of the electroosmosis of soil in plowing

Periodical : Zhur. tekhn. fiz., 24, 1474-1482, Aug 1954

Abstract : Experiments with electroosmosis indicate that an electric current can be used as a powerful factor in the immediate action on soil for varying its technological properties during plowing. Laboratory tests show that electroosmosis permits a sharp decrease in resistance of soil to deformation and also lessening of friction of soil against steel. Field tests on the use of electroosmosis in plowing reveal in every case lessened soil and plow resistance. Most effective is a voltage of 120v, current density .008 -.12 a/cm², soil moisture 24-26%, plow depth 20-25 cm; then the resistance decreases 15-17%. Twenty-one references, 10 USSR (e.g. F. F. Engel', 1952).

Institution : - -

Submitted : 19 March 1954

SHIRCKOV, B. I.

SHIRCKOV, B. I. -- "Investigation of the Phenomena of Soil Electro-Cosmosis as Applied to Plowing." All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Lenin. All-Union Sci Res Inst of Fertilization, Agricultural Engineering, and Soil Sciences. Moscow, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

USSR/Soil Science - Physical and Chemical Properties of Soils.

J.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67889

Author : Shirokov, B.I.

Inst : Penza Agricultural Institute.

Title : The Influence of Electroosmosis on Soil Structure.

Orig Pub : Sb. tr. Penzensk. s.-kh. in-ta, 1956, No 1, 322-326.

Abstract : By applying an electric current to the soil the author was able to study the effect of electroosmosis on soil structure. Specimens of the soil of a water-meadow were collected from the 10-20 cm. horizon without disturbing their structure. The structural state of the soil was computed by Andrianov's method, using the strength of the structural aggregates when exposed to water. A 500 volt current applied for 0.3 and 20 seconds had no effect on the water-strength of the structural aggregates. -- N.A. Komarova

Card 1/1

- 12 -

SHIROKOV, D.D., gornyy inzhener.

Ways of improving the productivity of a rock dump. Ugol' 30 no.1:
41-42 Ja '55. (MIRA 8:3)

1. Shakhta No.8 "Lipkovskaya" tresta Krasnogvardeyskugol'.
(Mine railroads--Cars)

FIL'KIN, I.N.; ROZENBLAT, M.M.; SHIROKOV, E.V.

Increasing the reliability of the means of controlling mechanical
presses. Kuz.-shtam.proizv. 3 no.7:16-20 J1 '61. (MIRA 14:6)
(Power presses) (Automatic control)

SAVCHENKO, P. (Kiyev); KORSHUN, A. (s.Gagino, Gor'kovskaya oblast');
DOLMATOV, P. (Moskva); DOROSHENKO, A. (g.Nikolayev); YEVSEYEV, G.
(Simferopol'); SHIROKOV, F. (Vol'sk, Saratovskaya oblast');
BOROVNIKOV, M. (Minsk); USHAKOV, B. (Moskovskaya oblast');
SAGAYDAK, I. (Karaganda); MECHIPORENKO, I. (Sunny).

At the fighting stand. Pozh.delo 3 no.10:22-23 0 '57. (MIRA 10:11)
(Firemen)

CHIRKOV, F., inzh.

Ionic decontamination of fresh water on a ship. Mor. flot 24
no.12:27-28 D '64. (MIRA 18:2)

SHIHOKOV, F.A.

Standard specifications for gas-purification apparatus. (In: Russia
(1923- U.S.S.R.) Vsesoyuznaya gosudarstvennaya sanitarnaya inspeksiya.
Ochistka promyshlennykh vybrosov v atmosferu. 1953, p.185) (MLRA 7:1)

1. Trest "Gazoochistka" Ministerstva khimicheskoy promyshlennosti.
(Air--Purification)

ANDRIANOV, A.P.; ZAYTSEV, M.M.; IDEL'CHIK, I.Ye.; POPOV, D.D.[deceased];
TELEKOVSKIY, Ye.N.; UZHOV, V.N.; CHUMAK, L.I.; SHAKHOV, G.F.;
SHIROKOV, F.A.; TOMCHINA, Ye.I., red.; ZAZUL'SKAYA, V.P., tekhn.
red.

[Battery cyclones; instructions for designing, assembling, and
operating] Batareinye tsiklony; rukovodiashchie ukazaniya po
proektirovaniyu, montazhu i ekspluatatsii. 2. izd. Moskva, Gos.
nauchno-tekhn.izd-vo khim. lit-ry, 1959. 103 p. (MIRA 15:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po khimii.
(Separators (Machines))

ZIL'BERBERG, A.Ye., inzh.; SHIROKOV, F.A., inzh.

From the history of the use of silver water. Sudostroenie 29
no.3:21 Mr '63. (MIRA 16:4)

(Silver--Physiological effect)

SHIROKOV, F. I.

AID P - S25

Subject : USSR/Engineering

Card 1/1 Pub. 78 - 10/26

Authors : Genkin, M. A., Minskiy, Ye. M., Kozlov, A. L.,
Teverovskiy, Ye. N. and Shirokov, F. I.

Title : Cyclonic separator of the VNII (All-Union Scientific
Research Institute)

Periodical : Neft. khoz., v. 32, #9, 41-43, S 1954

Abstract : The cyclone type of water and dust particle separation
from natural gas is described. A spiral deflector without
moving parts is used for turbulent rotation of gas and a
180° turn for particle separation. Apparatuses of various
capacities are outlined on 3 drawings. 2 Russian references
(1950-1951).

Institution: Scientific Research Institute. Gas Division (NIIOG)

Submitted : No date

SHIROKOV, F.V.

Mercer's (summability) theorem. Usp.mat.nauk 10 no.4:167-170 '55.
(Series) (MLRA 9:1)

CHIRKOV, P.V.

CHIRKOV, P.V. "On Conjugate Trigonometric Series." Moscow Order of
Iskhak Isakovich Terent'ev. Department of
Mathematics. Mechanics and Mathematics Faculty. Moscow,
1956 (Dissertation for the Degree of Candidate in Physico-
mathematical Science)

So: Knizhnaya letopis', no. 18, 1956

SUBJECT
AUTHOR
TITLE
PERIODICAL

USSR/MATHEMATICS/Algebra
SIROKOV F.V.
Proof of a conjecture of Kaplansky.
Uspechi mat. Nauk 11, 4, 167-168 (1956)
reviewed 12/1956

CARD 1/2

PG - 430

The author proves the conjecture of Kaplansky: In an associative (non commutative) normalized ring R the commutator $c = ab - ba$ of the elements a and b which is changeable with one of these elements is a quasi-nilpotent element. For the proof the author starts from the formula

$$(1) \quad \lambda c + b = e^{\lambda a} b e^{-\lambda a}$$

(it is assumed that $c = ab - ba$ commutes with a) which already appears in a paper of Vidov (Math. Zeitschr. 62, No.3, 330 (1955)). From (1) there follows

$$(2) \quad (\lambda c + b)^n = e^{\lambda a} b^n e^{-\lambda a};$$

(2) is differentiated n times and with aid of the expression

$$\frac{d^n}{d\lambda^n} (e^{\lambda a} b^n e^{-\lambda a}) = \sum_{k=0}^n (-1)^k \binom{n}{k} e^{\lambda a} a^{n-k} b^n a^k e^{-\lambda a}$$

SHIROKOV, P.V. (Moscow)

How mathematical discoveries are made ("Mathematics and plausible reasoning" [in English] by G. Polya. Reviewed by P. V. Shirokov).
Mat. pros. no.2:303-306 '57. (MIRA 11:7)

(Mathematics)

STSILARD, K.S. [translator]; SHIROKOV, F.V. [translator].

Fridesh Riss; obituary [translated from the Hungarian by
K.S.Stsilard and F.V.Shirokov]. Usp.mat.nauk 12 no.4:155-166
J1-Ag '57. (MIRA 10:10)
(Riss, Fridesh, 1880-1956)

SHIROKOV, F.V.

Translated mathematics books for publication by the publishing
house for foreign literature in 1958. Mat. pros. no.3:315-318
'58. (MIRA 11:9)

(Bibliography--Mathematics)

XHUA LO-KEN [Hua Lo-k'eng]; YEVORAFOV, M.A. [translator]; GRAYEV, M.I.,
red.; SHIROKOV, F.V., red.; REZOUKHOVA, A.G., tekhn.red.

[Harmonic analysis of functions of several complex variables in
classical domains] Garmicheskiy analiz funktsii mnogikh kom-
pleksnykh peremennykh v klassicheskikh oblastiakh. Pod red.
M.I.Graeva. Moskva, Izd-vo inostr.lit-ry, 1959. 163 p. Translated
from the Chinese. (MIRA 13:4)

(Functions of complex variables)

84758

16.2600

S/042/60/015/004/016/017XX
C111/C222

AUTHOR: Shirokov, P.V.

TITLE: The Solution of a Problem Formulated by Halmos (Notion of a Recurrent Sequence of Numbers) 16

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol.15, No.4, pp.185-192

TEXT: Let X be a space with a completely σ -finite measure μ , T be a mapping of X into itself which preserves the measure μ , $f(x)$ be an integrable function defined on X . The question of Halmos (Ref.1) on a suitable definition of a recurrent sequence is solved in the following manner:

Let $\{a_j\}_0^\infty$ be a sequence of finite real numbers; t - real number, $-\infty < t < \infty$. Among the first n terms of the sequence those are selected which are $\leq t$. Let $k_n(t)$ be their number divided by n . Beside of the given sequence $\{a_j\}_0^\infty$ the author considers sequences $\{a_j^+(A)\}_0^\infty$ and $\{a_j^-(A)\}_0^\infty$, where A is arbitrarily real. Here $a_j^+(A) = 0$ for $a_j \leq A$, $a_j^+(A) = a_j$ for $a_j > A$; $a_j^-(A) = a_j$ for $a_j \leq A$, $a_j^-(A) = 0$ for $a_j > A$. $k_n(t)$ is denoted as density, $k(t)$ as limit density.

Card 1/3

84758

S/042/60/015/004/016/017XX
C111/C222

The Solution of a Problem Formulated by Halmos (Notion of a Recurrent Sequence of Numbers)

Definition: The sequence $\{a_j\}_0^\infty$ is called recurrent if

d) there exists the limit value

$$(1) \quad \lim_{n \rightarrow \infty} k_n(t) = k(t),$$

where the convergence is performed on a countable everywhere dense point set,

β) to every $\varepsilon > 0$ there exists an $A > 0$, so that for all n it holds

$$(2) \quad \left| \frac{1}{n} \sum_{j=0}^{n-1} a_j^+(A) \right| < \varepsilon, \quad \left| \frac{1}{n} \sum_{j=0}^{n-1} a_j^-(-A) \right| < \varepsilon.$$

Theorem 1: The recurrent sequence $\{a_j\}_0^\infty$ is summable according to the method

(C,1) with the finite value $L = \int_{-\infty}^{\infty} t \, d k(t).$

Card 2/3

84758

S/042/60/015/004/016/017XX
C111/C222

The Solution of a Problem Formulated by Halmos (Notion of a Recurrent Sequence of Numbers)

Theorem 2: The sequence $\{f(T_x^i)\}$ is almost everywhere recurrent. If here the transformation T is ergodic, then the limit density $k(t)$, in general depending on x , is the same almost everywhere on X . This function $k(t)$ is given by:

Case 1: $\mu(X) < \infty$

$k(t) = \mu(G_t) / \mu(X)$, where the set $G_t = \{y: f(y) \leq t\}$.

Case 2: $\mu(X) = \infty$

$k(t) = \begin{cases} 1 & \text{for } t > 0 \\ 0 & \text{for } t < 0. \end{cases}$

The author thanks S.V.Fomin for attention. There are 3 references: 1 Soviet and 2 Japanese.

[Abstracter's note: (Ref.1) concerns P.R.Halmos, Lectures on Ergodic Theory] \psi

SUBMITTED: February 16, 1959
Card 3/3

GEL'FAND, Izrail' Moiseyevich; VILENKIN, Naum Yakovlevich; SHIROKOV, F.V.,
red.; YERMAKOVA, Ye.A., tekhn.red.

[Some applications of harmonic analysis. "Fitted" Hilbert spaces]
Nekotorye primeneniia garmonicheskogo analiza. Osnashchennye
gil'bertovy prostranstva. Moskva, Gos.izd-vo fiziko-mat. lit-ry,
1961. 472 p. (Obobshchennye funktsii, no.4). (MIRA 14:8)
(Harmonic analysis) (Hilbert space)

YELEN'SKIY, Shchepan [Jolenski, Shchepan]; BOYARSKAYA, G.F. [translator];
BOYARSKIY, B.V. [translator]; YAKUSHEV, A.A. [translator]; SHIROKOV,
F.V., nauchnyy red.; MIKOYAN, E.P., otv. red.; MARKOVICH, S.G.,
tekhn. red.

[Following the tracks of Pythagoras; entertaining mathematics] Po
sledam Pifagora; zanimatel'naya matematika. Moskva, Gos. izd-vo
detskoi lit-ry M-va prosv. RSFSR, 1961. 485 p. Translated from
the Polish. (MIRA 14:9)

(Mathematics—Juvenile literature)

GEL'FAND, Izrail' Moiseyevich; GRAYEV, Mark Iosifovich; VILANKIN, Naza
Yakovlevich; SHIROKOV, F.V., red.: KRYCHKOVA, V.N., tekhn.red.

[Integral geometry and problems of the theory of representa-
tions connected with it] Integral'naya geometriya i svyazannye
s nei voprosy teorii predstavlenii. Moskva, Gos. izd-vo fiziko-
matem. lit-ry, 1962. 656 p. (Obobshchennye funktsii, no.5).

(MIRA 16:2)

(Geometry, Modern)

(Functional analysis)

CHIRKOV, F.V.

"Converting a diffusion process into a Wiener one" by I.D.
Cherkasov. Reviewed by F.V.Shirokov. Teor. veroiat. i ee prim.
3 no.1:175-177 '64. (MIRA 17:4)

POSTNIKOV, Mikhail Mikhaylovich; SHIROKOV, F.V., red.

[Variational theory of geodesics] Variatsionnaya teoriya
geodezicheskikh. Moskva, Nauka, 1965. 248 p.
(MIRA 18:7)

GOKHBERG, Izrail' Tsudikovich; KREYN, Mark Grigor'yevich;
SHIROKOV, F.V., red.

[Introduction to the theory of linear non-self-adjoint
operators in Hilbert space] Vvedenie v teoriyu lineinykh
nesamosopriazhennykh operatorov v gil'bertovom prostran-
stve. Moskva, Nauka, 1965. 448 p. (MIRA 19:1)

1. SH. KEROV, G. G.
2. USSR (600)
4. Telecommunication
7. They are studying for a second profession, Sov. sviaz., 3, No. 5, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

18(5)

SOV/112-59-2-3520

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 184 (USSR)

AUTHOR: Dubrov, V. M., and Shirokov, G. G.

TITLE: Controlling a Group of Guiding-Rope Winches (About an Article by Ye. F. Sklyarenko) (Upravleniye gruppoy lebedok dlya napravlyayushchikh kanatov /Na stat'yu Ye F. Sklyarenko/)

PERIODICAL: Shakhtnoye str-vo. 1958. Nr 1, pp 21-22

ABSTRACT: Disadvantages are listed of the scheme for controlling a group of guiding-rope winches described in an article by Ye F. Sklyarenko (see Referativnyy Zhurnal, Elektrotehnika, 1958. 19760). Operating experience is reported with installations for joint control of winches developed by Giproshtakhtostroy mash. One illustration.

Card 1/1

DUROV, V.M., inzh.; SHIROKOV, G.O., inzh.

Electric signal system used in shaft sinking. Bezop.truda v prom. 4
no.4:24 Ap '60. (MIRA 13:9)
(Electricity in mining)

KAVANOV, A.V.; KUROCHKIN, B.N.; SHIROKOV, G.I.; KOKAREV, M.I., dotsent,
retsensent; PANFILOV, M.I., inzhener, retsensent.

[Thermal processes of open-hearth furnaces in rapid steel making]
Teplovye rezhimy martenovskikh pechei pri skorostnom stalevarenii.
Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi
metallurgii, 1953. 140 p. (MLRA 7:6)

1. VNIIT. (Open-hearth process)

KHODAKOVSKIY, V.V.; YEFIMOV, V.A., kand. tekhn. nauk, starshiy nauchnyy rabotnik; KOSENKO, P.Ye., kand. tekhn. nauk; KAZAKEVICH, S.S.; LAPITSKIY, V.I., prof., doktor tekhn. nauk; FILIP'YEV, O.V.; STROGANOV, A.I., kand. tekhn. muk, dots.; DEMIDOVICH, A.V.; BORNATSKIY, I.I., kand. tekhn. nauk; MEDZHIBOZHSKIY, M.Ya., dots.; KOCHO, V.S., prof., doktor tekhn. nauk; RYN'KOV, V.I.; LOMAKIN, L.M., mladshiy nauchnyy sotrudnik; KOKAREV, N.I., dots.; KLYUCHAREV, A.P.; PLYUSHCHENKO, Ye.A.; KAPUSTIN, Ye.A., kand. tekhn. nauk, dots.; KOBENZA, I.I., kand. tekhn. nauk, nauchnyy sotrudnik; SHIROKOV, G.I.; UMRICHIN, P.V., prof., doktor tekhn. nauk; LEZHAVA, K.I.; ZHIGULIN, V.I.; MOROKOV, P.K.; KHLIBNIKOV, A.Ye., prof., doktor tekhn. nauk, starshiy nauchnyy sotrudnik; TARASOV, N.S.; NIKOLAYEV, A.G.

Discussions. Bul. TSNIICM no.18/19:40-66 '57. (MIRA 11:4)

1. Starshiy inzhener Glavspetsstali Ministerstva chernoy metallurgii SSSR (for Khodakovskiy). 2. Institut gaza (for Yefimov). 3. Direktor Dneprodzerzhinskogo metallurgicheskogo instituta (for Kosenko). 4. Nachal'nik laboratorii Leningradskogo instituta ogne-uporov (for Kazakevich). 5. Zaveduyushchiy kafedroy metallurgii stali Dnepropetrovskogo metallurgicheskogo instituta (for Lapitskiy). 6. Nachal'nik laboratorii Giprostali (for Filip'yev). 7. Chelyabinskii politekhnicheskii institut (for Stroganov). 8. Nachal'nik teplotekhnicheskoy laboratorii Severskogo metallurgicheskogo zavoda (for Demidovich). 9. Zamestitel' nachal'nika TSentral'noy zavodskoy laboratorii Makeyevskogo metallurgicheskogo zavoda (for Bornatskiy).

(Continued on next card)

KHODAKOVSKIY, V.V.---(continued) Card 2.

10. Sibirskiy metallurgicheskii institut (for Medzhibozhskiy).
 11. Zaveduyushchiy kafedroy metallurgii stali Kiyevskogo politekhnicheskogo instituta (for Koohe). 12. Ispolnyayushchiy obyazannosti glavnogo inzhenera Beloratskogo metallurgicheskogo kombinata (for Ryn'kov). 13. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Lomakin). 14. Ural'skiy politekhnicheskii institut (for Kokarev). 15. Zamestitel' nachal'nika teplotekhnicheskoy laboratorii Nizhne-Tagil'skogo metallurgicheskogo kombinata (for Klyucherov). 16. Nachal'nik teplotekhnicheskoy laboratorii Tsentral'noy zavodskoy laboratorii zavoda im. Voroshilova (for Flyushchenko). 17. Zhdanovskiy metallurgicheskii institut (for Kapustin). 18. Institut metallurgii im. Baykova AN SSSR (for Kobeza). 19. Nachal'nik laboratorii martenovskikh pechey Vsesoyuznogo nauchno-issledovatel'skogo instituta metallurgicheskoy teplotekhniki (for Shirokov). 20. Zaveduyushchiy kafedroy metallurgii stali Ural'skogo politekhnicheskogo instituta (for Umrikhin). 21. Nachal'nik metallurgicheskoy laboratorii Tsentral'noy zavodskoy laboratorii Zakavkazskogo metallurgicheskogo zavoda (for Iezhava). 22. Zamestitel' glavnogo inzhenera zavoda im. Petrovskogo (for Zhigulin). 23. Nachal'nik martenovskogo tsekha Kuznetskogo metallurgicheskogo kombinata (for Morokov). 24. Institut metallurgii im. Baykova AN SSSR (for Khlebnikov). 25. Glavnyy inzhener Petrovsk-Zabaykal'skogo metallurgicheskogo zavoda (for Tarasov). 26. Nachal'nik tsekha Magnitogorskogo metallurgicheskogo kombinata (for Nikolayev).

(Open-hearth process)

SHIROKOV, G.I.

Use of oxygen in open-hearth furnaces. Trudy NTO chern. met. 20:402-
408 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy
teplotekhniki.
(Open-hearth furnaces)

BEVCHIK, Aleksandr Sergeyevich; KAVALENOV, A.V., doktor tekhn. nauk,
red.; SHIMOKOV, G.I., retsenzent; YAKOVENKO, N.N., red.
izd-va; KARASEV, A.I., tekhn. red.

[Heat transfer in open-hearth furnaces] Teploperedacha v
martenovskikh pechakh. Moskva, Metallurgizdat, 1963. 229 p.
(MIRA 17:2)

WEISNER, L.I., SHIROKOV, G.K.

"The correlation between the production of capital goods and the production of consumer goods permitting the most effective development of an independent economy in undeveloped countries."

Report submitted to the Conf. on the Application of Science and Technology
for the Benefit of the Less Developed Areas.
Geneva, Switzerland 4-20 February 1963

SHIROKOV, I., komandir samolota An-2 (Salekhard)

Two suggestions. Grazhd. av. 19 no.4:26 Ap '62. (MIPA 15:5)
(Aeronautics, Commercial--Technological innovations)

SHIPOKOV, I.K., nauchnyy sotrudnik

Replantation of teeth in acute odontogenic osteomyelitis. Trudy
Nauch.-issl.inst.stom. no.10:79-84 '62. (MIRA 15:10)
(OSTEOMYELITIS) (DENTISTRY, OPERATIVE)

USSR/Electricity

Mar 1948

Currents, Electric - Leakage
Transmission Lines

"Cases of Ignition of Wooden Posts From Leakage Currents on 35 and 2 Kilowatt Electric Transmission Lines," I. L. Shirokov, *KazEnergoNeft'*, 3 $\frac{1}{2}$ pp

"Energeticheskiy Byulleten'" No 3

In 1945 there were 14 cases of ignition of transmission line poles recorded in *KazEnergoNeft'* trust. Meteorological conditions, mechanical conditions and all other aspects of this problem are discussed.

61r22

SHIROKOV, I. L.

PA 42/49T9

USSR/Electricity
Power Plants, Diesel
Gears

Mar 49

"Alteration of Type RBA-11 Gear," I. L. Shirokov,
1 p

"Energet Byul" No 3

Discusses alteration of type RBA-11 gear due to a difficulty which developed at the relay protection of the 6,000-volt side of the feeder during the start of operation of the electric transmission power-system line, uniting two Diesel electric stations. Gives two diagrams of mechanism.

42/49T9

SHIROKOV, I.L., inzhener.

Device for pressing stator coil ends for the electric motors of
power tools. Strei. i der.mashinestr. no.7:32 J1 '56.(MLBA 9:10)
(Electric motors)

SHIROKOV, I.V. (Sochi)

Winter flowering of ash. Priroda 50 no.11:127 N '61.

(MIRA 14:10)

(Caucasus—Winter)

L 46147-65

ACCESSION NR: AP5010686

The generator frequency was 2832 Mcs. A measured fraction of the generator power was used to excite the investigated high-frequency discharge in a discharge tube installed in a resonator. The shape of the pulse passing through the resonator is shown in Fig. 2 of the Enclosure as a function of the constant magnetic field and the constant voltage. The results indicate that the constant electric field increases the time of pulse shaping (near cyclotron resonance), whereas a constant magnetic field reduces the shaping time, so that the joint effects of the fields have a tendency to cancel each other. Physical reasons for these effects are discussed. The authors thank Z. A. Flyatsok for help with the calculations and their reduction. The article has: 5 figures and 2 formulas. [02]

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiev State University)

SUBMITTED: 04Apr64

ENCL: 02

SUB CODE: EC, EM

NO REF SOV: 001

OTHER: 005

ATD PRESS: 4002

Card 2/4

SHILNIKOV, I. I.

"The Effect of Vitamin B₁ on the Secretory Function of the Stomach," Sov. Med., No. 1,
1948 Mar., Propaedeutics Clinic, 1st Moscow Ord. Lenin Med. Inst. -c1948-

LIFOVSKAYA, Valentina Mikhaylovna; SHIROKOV, K.A., red.

[Experience in the work of the volunteer bureau of
technical information in the Kirov Spinning and Yarn
Combine] Opyt raboty obshchestvennogo biuro tekhnicheskoi
informatsii priadil'no-nitoch'nogo kombinata im. S.M.
Kirova. Leningrad, 1964. 26 p. (MIRA 18:4)

SHIROKOV, K.P.

Testing potentiometers by Diesselhorst's method. Trudy VNIIM
no.1:72-95 '47. (MIRA 11:11)
(Potentiometer--Testing)

SHIROKOV, K.P.

New six-decade potentiometer. Trudy VNIIM no.6:45-74 '49.
(Potentiometer) (MIRA 11:11)

SHIROKOV, K.P.

Set of instruments for checking ammeters and voltmeters at a.c.
higher frequencies. Trudy VNIIM no.24:24-56 '54. (MIRA 10:12)
(Ammeter) (Voltmeter)

SHIROKOV, K. P.

"Corrections of Readings of Certain Compensator Types of Direct Current"
Tr. Vses. n-i. In-ta Metrologii, No 24, 1954, 77-94

Discussed are electrical circuits of the most used types of pentade-
cade compensators PV-1, PV-2, PV-6, PN-1, and PN-2 of the "Etalon" plant,
the "ladder" "stage" and bridge types for measuring low emf (~~2x~~ types PPTN
and KL-48), and bridge type PMS-48. Analysis of formulas derived for cor-
rections of the instruments require complex computations. Most easily
corrected are compensators of the type PV-6 of the "Etalon" plant and the
bridge compensator PS-48. These two types of compensators give the high-
est accuracy of measurements. (RZhFiz, No 9, 1955)

CO: Sum-No 787, 12 Jan 56

SHIROKOV, K.P.

Precision instrument for balancing double bridges. Trudy VNIIM
no.24:94-104 '54. (MIRA 10:12)

(Electric instruments)

112-3-6147

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,
Nr 3, p. 158, (USSR)

AUTHOR: Shirokov, K.P.

TITLE: Use of Quadrant Electrometer for Checking Wattmeters
on Alternating Current at Higher Frequencies (Primeneniye
kvadrantnogo elektrometra dlya poverki vattmetrovo na
peremennom toke povyshennoy chastoty)

PERIODICAL: Tr. Vses. n.-l. in-ta metrol., 1956, Nr 28, pp. 5-19

ABSTRACT: A new type of electrometer (author's certificate
No. 100156) was developed for measuring a-c power at
higher frequencies. The instrument differs from previous
electrometers in that zero adjustment is made by means
of a magnetoelectric resetter, which is deflected by
auxiliary direct current. As explained in the author's
description of the theory of operation, there is no need
for rigid requirements of shape and symmetrical arrange-
ment of quadrants and bisque, constant twisting torque of
the suspension, and graduation of many points on the scale;

Card 1/2

112-3-6147

Use of Quadrant Electrometer for Checking Wattmeters on Alternating Current at Higher Frequencies (Cont.)

the accuracy of the readings is greater, and it becomes possible to determine the constant of the instrument for the frequency at which it will be used. The construction of the electrometer is described, its basic parameters are presented, and an analysis is made of the error of the method, on the basis of which a conclusion is drawn concerning the applicability of this method to accurate power measurements (on the order of several hundredths of a per cent), at frequencies up to several tens of thousands of cps. Finally, the results of several experimental studies substantiating the theoretical conclusions are presented.

M.A.B.

Card 2/2

Shirokov, K.P.
SHIROKOV, K.P.; GINZBURG, V.A.

Effect of magnetic fields on manganin resistors. Trudy VNIIM no.28:
102-106 '56. (MIRA 10:12)
(Magnetic fields) (Electric resistance)

SHIRKOV, D. I.
ARUTYUNOV, V.O.; GORBATSEVICH, S.V.; ZUBRILIN, V.P.; KOLOSOV, A.K.; ROMA-
NOVA, M.F.; TIKHODEYEV, P.M.; CHERNYSHEV, Ye.T.; SHIROKOV, K.P.;
SHRAMKOV, Ye.G.; YANOVSKIY, B.M.

Mikhail Fedoseevich Malikov; on his 75th birthday. Izv. tekhn. no.2:
85-86 Mr-Apr '57. (MLRA 10:6)
(Malikov, Mikhail Fedoseevich, 1882-)

AR. TYUMOV, V.P.; DOLINSKIY, Ye.P.; KOLGOV, A.K.; MAKSIMOV, L.M.; ROMANOV,
M.P.; RUDO, N.M.; CHECHURINA, Ye.N.; SHIROKOV, K.P.; SHRAMKOV,
Ye.C.; YANOVSKIY, B.M.

E.T. Chernyshev; 50th birthday anniversary and 30th anniversary of
scientific and pedagogic activities, Ism. tekhn. no.3:91 My-Je '57.
(Chernyshev, Evgenii Titovich, 1907-) (MIRA 10:3)

SHIROKOV, K.P.; SHRAMKOV, Ye.G.

Metrological work in the field of electric and magnetic measurements.

Izm. tekhn. no.6:61-64 N-D '57.

(MIRA 10:12)

(Electric measurements) (Magnetic measurements)

SHRAMKOV, Ye.G.; GORBATSEVICH, S.V.; KOLOSOV, A.K.; DBOTKOV, I.N.; ROZHDESTVENSKAYA, T.B.; SHIROKOV, K.P.; CHERNYSHEV, Ye.T.; YANOVSKIY, B.M.

Metrological activities in the field of electric and magnetic measurements. Trudy.VNIIM no.33:60-93 '58. (MIRA 11:11)

1. Rukovoditel' otдела elektricheskikh i magnitnykh izmereniy
Vsesoyuznogo nauchno-issledovatel'skogo instituta metrologii imeni
D.I. Mendeleyeva (for Shramkov).
(Electric measurements) (Magnetic measurements)

SHIROKOV, K.P.

Precision in checking the electric resistance devices. Trudy
VNIIM no.38:86-102 '59. (MIRA 13:4)
(Electric resistors)

SHIROKOV, K.P.

Check sheets developed by the All-Union Scientific Research
Institute of Metrology. Izm.tekh. no.7:12-16 J1 '60.
(MIRA 13:7)

(Weights and measures--Testing)
(Measuring instruments--Testing)

SHIROKOV, K.P.

Graphic method of working up bathythermograph readings. Trudy GOIN
no. 55:224-229 '60. (MIRA 14:7)

(Bathythermograph)

BEVIN, V.V.; SHIROKOV, K.P.

Determining the elements of ice drift in the sea from the
airplane. Trudy GOIN no.63:64-77 '61. (MIRA 14:8)
(Sea ice) (Aerial photogrammetry)

SHIROKOV, K. F.

Draft recommendations of the All-Union Research Institute of Metrology "Basic metrological terms and definitions." Trudy inst. Kom. stand. mer i izm. prib. no.57:101-122 '62.
(MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva.

(Mensuration—Terminology)

SHIROKOV, K.P.

Innovations in the measurement of mass. Izv.tekh, no.2:24 P
'63. (MIRA 16:2)
(Weights and measures)

BOGUSLAVSKIY, Moisey Grigor'yevich, kand. tekhn.nauk; KREMLEVSKIY, Panteleymon Petrovich, kand. tekhn. nauk; OLEYNIK, Boris Nikolayevich, kand. tekhn. nauk; CHECHURINA, Yekaterina Nikolayevna, kand. tekhn.nauk; SHIROKOV, Konstantin Pavlovich, kand. tekhn.nauk; BURDUN, G.D., doktor tekhn. nauk, retsenzent; RYSKO, S.Ya., red.izd-va; MEDVEDEV, L.Ya., tekhn. red.

[Tables for the conversion of measurement units] Tablitsy perevoda edinit izmerenii. [By] M.G.Boguslavskii i dr. Moskva, Standartgiz, 1963. 116 p. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I.Mendeleyeva (for Boguslavskiy, Kremlevskiy, Oleynik, Chechurina, Shirokov).

BURDUN, Grigoriy Dmitriyevich, prof.: KALASHNIKOV, Nikolay Vasil'yevich;
STOTSKIY, Lev Rudol'fovich; VUKALOVICH, M.P., prof., doktor tekhn.
nauk, laureat Leninskoy premii, retsenzent; SHIROKOV, K.P.,
doktor tekhn. nauk, retsenzent; PERKOVSKAYA, G.Ye., red.

[International system of units] Mezhdunarodnaya sistema
edinits. Moskva, Vysshaya shkola, 1964. 273 p.

(MIRA 17:11)

1. Rukovoditel' kafedry teoreticheskikh osnov teplotekhniki
Moskovskogo energeticheskogo instituta (for Vukalovich).
2. Rukovoditel' metrologicheskogo otdela Vsesoyuznogo na-
ucho-issledovatel'skogo instituta metrologii im. D.I.
Mendeleyeva (for Shirokov).

CHIRKOV, K.P.

Development of a metric system of measures and the ways to
a transition to the international Units System in the
U.S.S.R. Izv. tekhn. no. 4:13-16 Ap '64. (MIRA 17:7)

S/2634/64/000/071/0125/0140

ACCESSION NR: AT4038922

AUTHOR: Betin, V. V.; Losev, S. M.; Shirokov, K. P.

TITLE: Aerial photography of marine ice floes

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy*, no. 71, 1964. Issledovaniye izmenchivosti ledovitosti nekotorykh morey (Investigating the variability in ice formation on some seas), 125-140

TOPIC TAGS: oceanography, drift ice, ice floe, aerial photography, ice flow photography, marine ice

ABSTRACT: This extensive article is in four parts. In the first section, the authors discuss aerial photographic field work in general terms. Cartographic and reconnaissance factors are considered which must precede the actual photographic operations. Recommendations are given regarding the linear value of the base for various frame formats, scale and camera types. Tack length is also considered for situations involving photography along the shore, along the fast ice line (shore ice) and over open water. It is pointed out that an extremely desirable condition when selecting the routing is the possibility of a two-way connection or orientation of that routing with certain fixed features (islands,

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ACCESSION NR: AT4038922

capas, promontories, fast ice zone, etc.). The time intervals between subsequent sorties are to be so scheduled that not less than 50% of the floating ice area recorded on the pictures of a preceding tack is represented on the next succeeding aerial photography routing. The use of the smallest possible scale is recommended and the reasons why, in aerial photographic work involving the study of ice drift, this scale should always be minimal for given resolution of the equipment, corresponding meteorological conditions and dimensions of the ice floes to be photographed are explained. The importance of parallel observations over surface currents in the gaps between floes is noted. Recommendations are given with respect to the depth of immersion of float buffers and the point is made that this depth should correspond to the thickness of the ice. The authors note that it is advisable to carry out aerial photography in parallel with two cameras capable of simultaneously photographing at two scales: 1 : 20,000 - 1 : 40,000. for the ice drift proper and 1 : 5,000 for the disposition of the floats. The second part of the article analyzes the results of the aerial photography performed in the Gulf of Finland in 1961. This material was broken down into three groups. The first group contains materials obtained in photo passes made along the coast or the edge of the fast ice (coast ice); the second group contains material from cantilever extensions; the third group contains the material from

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ACCESSION NR: AT4038922

closed passes, resting at fixed reference points on both ends. The data processing of the information from all three groups is discussed in this section. The authors point out that the determination of the elements of ice drift on the basis of the materials of each of these groups is possible through the use of graphic photo-triangulation. However, for the first group, under certain conditions, the problem may be simplified somewhat with no appreciable loss of accuracy in the results obtained. For this purpose, it is sufficient to limit oneself to the use of conventional photo layouts (aerial mosaics, in this case), mounted from contact prints, without recourse to the plotting of photo-triangulation nets. Since the problem of the processing of aerial photography material on drift ice is of definite interest, the authors have considered it necessary to consider the peculiarities of this problem in detail as they apply to each of the three cases. The third section of the paper deals with method accuracy. The ice drifting elements, obtained as a result of the processing of the material for each of the three groups above, naturally contain errors. Since the character of these errors and their magnitude will be somewhat different in each separate case, the degree of accuracy in the results derived will also be different. For all three processes, the accuracy in the determination of the speed and direction of the drift will increase as the route length decreases, as the duration of the time interval between sorties increases and as the drift speeds

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ACCESSION NR: AT4038922

increase. Since the speed of the drift is independent of human intervention, in order to obtain drift material of given accuracy only the first two elements can be varied. It is not always possible to reduce the route length, since this is limited by the region under study. Consequently, all other conditions being equal, the accuracy of the derived information can be enhanced solely by increasing the time interval between contiguous tacks. The problem is analyzed mathematically in the article. In the example considered by the authors (exposure scale 1 : 20,000; base number 23 - 25; time between sorties about 1 hour; drift on the order of 0.5 km/hour) the errors in the center section of the photo passes were not more than 15% for the speed of drift, and not more than 10% for the direction. The fourth and final section of the article gives a detailed description of the use of repetitive aerial photography for the study of ice drifting in Kursh Bay (Kurshkiy zaliv) and in the adjacent area of the Baltic Sea. The ice was photographed over the same routes which were so laid out that it was possible, at least along the edge of the picture, to obtain an image of the coastal strip of dry land. In this way, a point of reference on the coast line was provided for all pictures and the position of the ice flows was strictly coordinated on the basis of orientation markers on the shore. This section is supplemented with charts and maps. The data on ice drifting obtained in this

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ACCESSION NR: AT4038922

operation make it possible to recommend the method for wide use in the investigation of ice drifting both in open as well as in coastal waters. The general conclusions reached by the authors in this article can be summarized as follows:

1. The use of the method of repeated aerial photographic tacks permits the establishment of the laws of ice drifting as a function of wind conditions, while at the same time embracing all the varieties of ice encountered at sea.
2. Experience in the use of aerial photography for the study of ice drift conditions makes it possible to recommend this method for practical utilization.
3. Aerial photography operations can be carried out over routes enclosed between two objects on dry land, by cantilever extension routes or by routes running along the coast line or edge of the fast ice (coast ice).
4. The smallest scales permissible under the given weather conditions, flow dimensions and resolving power of the photographic equipment in use should be employed.
5. Before photographing an ice drift from the air, it is expedient to drop special floats containing a charge of fluorescent material in the intervals between the floes. In this connection, the exposure should be made on two scales: on a small scale for the ice drift proper, and on a larger scale for the disposition of the floating markers.
6. Meteorological conditions (cloud formation, visibility, illumination) place the same constraints on the use of aerial photography for the study of ice drifting as on its other applications. Problems relating to the accuracy of the determin-

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ACCESSION NR: AT4038922

ation of ice drift elements at sea by the method of vertical aerial photography require further development and refinement. Orig. art. has: 5 figures and 12 formulas.

ASSOCIATION: Gosudarstvennyy okeanograficheskiy institut, Moscow (State Institute of Oceanography)

SUBMITTED: 00

DATE ACQ: 04Jun64

ENCL: 00

SUB CODE: ES

NO REF SOV: 005

OTHER: 000

Card -6/6-

SHIROKOV, K.P.

Principles of the structure of the International System of
Units. Izv. tekhn. no. 10:44-50 0 '64 (MIRA 18:2)

SHIROKOV, K.P.

Reviews. Izv. tekh. no.12255-56 D '64.

(MIRA 18:4)

MALIKOV, Sergey Fedoseyevich; TYURIN, Nikolay Ivanovich
DOLINSKIY, Ye.F.; retsenzent; SHIROKOV, K.P., dokt.tekhn.
nauk, red.

[Introduction to metrology] Vvedenie v metrologiu.
Moskva, Izd-vo standartov, 1965. 239 p. (MIRA 18:4)

1.40
... in the rationalization of equations of an electromagnetic
field. Int. J. of ... 1966.

(MIRA 18:8)

BOZHOLAVICH, Gily Gilyevich; SHIMCHIK, Konstantin Pavlovich;

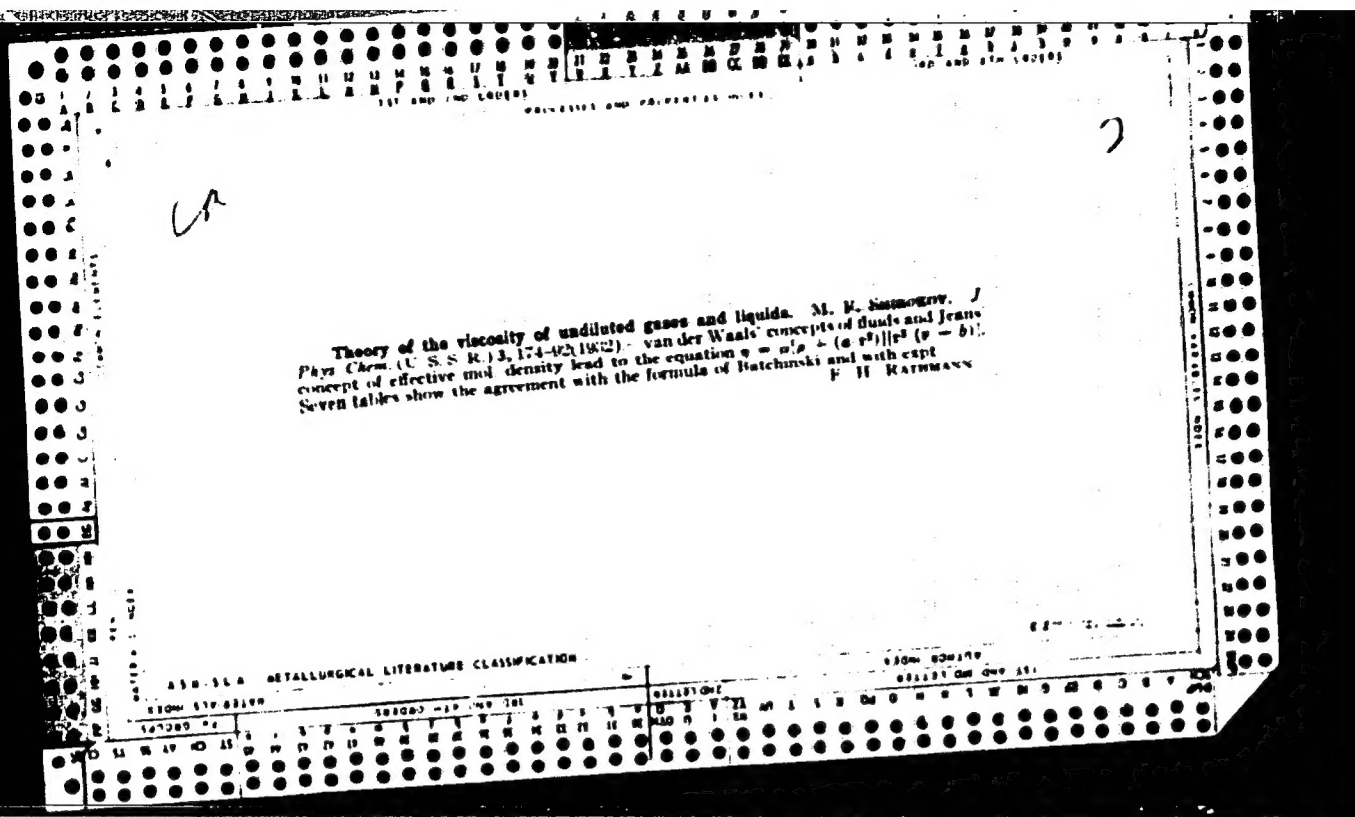
[International System of Units (SI); Handbook for lecturers
and propagandists] Mezhdunarodnaya sistema edinits (SI); po-
sobie dlia lektorov i propagandistov. Moskva, Izd-vo stan-
dortov. 1965. 56 p. (NIRA 189)

SHUPKOV, A.I., doktor tekhn. nauk, red.

Introduction of the International Unit System; collection
of reports] O vnedrenii Mezhdunarodnoi sistemy edinits;
sbornik dokladov. Moskva, Izd-vo standartov, 1965. 101 p.
(MIRA 18:10)

PETROV, Ye.I.; NOVOSELOV, V.A.; Prinimali uchastiye: CHVANOV, P.A.;
SHIROKOV, L.F.; KOROBEKOV, V.P.; KULAYEV, P.A.; POPKOVA, L.F.;
LEBEDEV, I.M.; BAKAYEV, A.M.

Flotation of Sibay deposit zinc ores. TSvet. met. 35 no.3:
15-18 Mr '62. (MIRA 15:4)
(Flotation) (Sibay region—Zinc ores)



11

The viscosity of water vapor from the point of view of
the molecular kinetic theory. M. P. Shurukov. *J.*
Exptl. Theoret. Phys. (U. S. S. R.) 3, 21-44 (1961).
M. Goyer

ASA SLA METALLURGICAL LITERATURE CLASSIFICATION